

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
27 May 2004 (27.05.2004)

PCT

(10) International Publication Number
WO 2004/044151 A3

(51) International Patent Classification⁷: C07H 21/04,
A01K 67/00, C12N 15/00, 15/09, C12P 21/00

(21) International Application Number:
PCT/US2003/035645

(22) International Filing Date:
7 November 2003 (07.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/425,111 7 November 2002 (07.11.2002) US

(71) Applicant (for all designated States except US): UNI-
VERSITY OF ROCHESTER [US/US]; 601 Elmwood
Avenue, Box 706, Rochester, NY 14642 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): STREB, Jeffrey, W.
[US/US]; 28 Colebourne Road, Rochester, NY 14609 (US).
MIANO, Joseph, M. [US/US]; 263 Lone Oak Avenue,
Rochester, NY 14616 (US).

(74) Agents: HUIZENGA, David, E. et al.; Needle & Rosen-
berg, P.C., Suite 1000, 999 Peachtree Street, Atlanta, GA
30309-3915 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR,
CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,
SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
9 December 2004

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: RECOMBINASE MEDIATED TRANSCRIPTION

(57) Abstract: Disclosed are compositions and methods related to nucleic acids.

WO 2004/044151 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/35645

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07H 21/04; A01K 67/00; C12N 15/00, 15/09; C12P 21/00
 US CL : 536/23.1, 23.4, 24.1; 435/69.1, 320.1, 235.1, 455, 471; 800/8

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.1, 23.4, 24.1; 435/69.1, 320.1, 235.1, 455, 471; 800/8

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,888,732 A (HARTLEY et al.) 30 March 1999(30.03.1999), see the entire patent.	1-34
A	US 6,077,992 A (YADAV, N.S.) 20 June 2000(20.06.2000), see the entire document.	1-34
A	US 6,632,980 B1 (YADAV et al.) 14 October 2003(14.10.2003), see the entire patent.	1-34

☐

Further documents are listed in the continuation of Box C.

☐

See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

26 September 2004 (26.09.2004)

Date of mailing of the international search report

06 OCT 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Gerald G. Leffers Jr., PhD

Telephone No. (571) 272-1600

INTERNATIONAL SEARCH REPORT

PCT/US03/35643

Continuation of B. FIELDS SEARCHED Item 3:

EAST: DERWENT, EPO, JPO, USPAT, US PGPUBS

STN: MEDLINE EMBASE BIOSIS CAPLUS

search terms:inventors names, decoy, lox p, cre, recombinase, transcription, mediat?, regulat? EFGP, ECFP, EYEP, HcRed,DsRed